

DII COE
Integration & RunTime
Specification
(I&RTS)
version 3.1
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Mr. E. L. Krum
Raytheon Systems Company
email : krumer@hanscom.af.mil
(781) 377-1273

Outline

- Background
- Integration & Runtime Specification (I&RTS)
- Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments
- Items & Subjects Not Addressed or Completed
- Differences between DISA and NTAG
- Recommendations
- COE NT Architecture Diagram

Background

- May 98 - Draft Interim Guidance for DII COE NT Developers, out for comment
- July 98 - Briefed DISA Chief Engineer and Deputy Commander on Interim Guidance and demonstrated InstallShield template
- July 98 - Tasked to write I&RTS Windows NT Chapter and COE Level Compliance Checklist (Appendix B)
- Aug 98 - I&RTS Windows NT Chapter 6 and COE Level Compliance Checklists submitted to DISA
 - Eight (8) days to complete chapter 6 and checklist

Integration & Runtime Specification (I&RTS)

- Follow on to DII COE Interim Development Guidance for Windows NT Platforms
- New Chapter 6, Windows New Technology (NT)-Based Segments
- Updated Compliance Checklists submitted as separate UNIX and NT sections

Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments

- 6.1 Windows NT COE Segmentation
- 6.2 NT-Specific COE Descriptors
- 6.3 Platform Configurations
- 6.4 Reserved Words
- 6.5 Naming Conventions
- 6.6 Network Based Client Devices
- 6.7 Programming Standards

Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments

- 6.1 Windows NT COE Segmentation
 - 6.1.1 Disk Directory Structure Requirements
 - 6.1.2 Requirements for Full and Abbreviated Segmentation
 - 6.1.3 Abbreviated Segmentation Considerations
- 6.2 NT-Specific COE Descriptors

Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments

- 6.3 Platform Configurations
 - 6.3.1 Windows NT Domains
 - 6.3.2 Windows NT Workgroups
 - 6.3.3 Windows NT Servers
 - 6.3.3.1 Server Disk Partition Structure
 - 6.3.3.2 Server Disk Directory Structure
 - 6.3.4 Windows NT Workstations
 - 6.3.4.1 Workstation Disk Partition Structure
 - 6.3.4.2 Workstation Disk Directory Structure

Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments

- 6.4 Reserved Words
 - 6.4.1 Segment Prefixes
 - 6.4.2 Environment Variables
 - 6.4.3 Reserved Filenames
 - 6.4.4 Reserved Directory Names
- 6.5 Naming Conventions
 - 6.5.1 Directory Names
 - 6.5.2 Filenames
 - 6.5.3 Registry Keys
 - 6.5.4 TCP/IP Domain Names
 - 6.5.5 SMTP Domains

Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments

- 6.5 Naming Conventions (con't)
 - 6.5.6 NT Domains
 - 6.5.7 NT COE Resource Domains and Workgroups
 - 6.5.8 Global Groups
 - 6.5.9 Local Groups
 - 6.5.10 User Login Names
 - 6.5.11 NetBIOS and DNS Device Names
 - 6.5.11.1 Server Names
 - 6.5.11.2 Workstation Names
 - 6.5.11.3 Printers and Printer Queues

Overview I&RTS Chapter 6, Windows New Technology (NT)-Based Segments

- 6.6 Network Based Client Devices
- 6.7 Programming Standards
 - 6.7.1 Human Computer Interface
 - 6.7.2 Application Programming Interfaces (APIs)
 - 6.7.3 Registry Usage
 - 6.7.4 File System
 - 6.7.5 Filenames
 - 6.7.6 File Extensions
 - 6.7.7 Dynamic Link Libraries
 - 6.7.8 Graphics
 - 6.7.9 Fonts
 - 6.7.10 Printing
 - 6.7.11 Network Considerations

Items & Subjects Not Addressed or Completed

- Directory structure and names
- TCP/IP domain names
- SMTP domain names
- Use of Local and Global Groups
- User profiles
- Network management (UNIX & NT Integration)
- Workstation management
- Web site configuration

Items & Subjects Not Addressed or Completed (con't)

- Terminal server
- Security Editor
- DNS & WINS & DHCP
- Enterprise software distribution
- Define NT COE road map for the future
- NT 5
 - COM+
 - Active directory
 - etc, etc

Differences between DISA and NTAG

- Preferred segmentation process
 - Full (DISA preferred)
 - Abbreviated (NTAG preferred)
- Separate or consolidated Compliance Checklists (Appendix B, I&RTS)
- Style guide precedence
 - DII Style Guide
 - The Windows Interface Guidelines for Software Design

Recommendations

- Develop NT COE road map, where we should go and how to get there
- Review I&RTS version 3.1 and submit comments via NTAG Chairperson

DII COE NT Architecture Diagram



